

CLAIMS

What is claimed is:

- 1 1. A method for correcting a network address for an object device,
2 the method comprising:
3 (a) reading, from a record, a recorded network address and a
4 recorded unique enduring identification for the object device;
5 (b) querying the recorded network address for a returned unique
6 enduring identification;
7 (c) comparing the returned unique enduring identification with
8 the recorded unique enduring identification; and,
9 (d) responsive to a mismatch between the returned unique
10 enduring identification and the recorded unique enduring identification, finding a
11 current network address for the object device and replacing the recorded
12 network address with the current network address.
- 1 2. The method of claim 1 wherein querying the recorded network
2 address for a returned unique enduring identification includes:
3 (a) addressing a unique enduring identification query to the
4 recorded network address; and,
5 (b) receiving the response to the query.
- 1 3. The method of claim 1 wherein querying the recorded network
2 address for a returned unique enduring identification includes performing an
3 SNMP Get call to the recorded network address.
- 1 4. The method of claim 1 wherein finding a current network address
2 for the object device includes:

- 3 (a) reading, from the record, a recorded hostname for the object
 4 device; and,
 5 (b) retrieving the current network address for the recorded
 6 hostname.

1 5. The method of claim 1 wherein finding a current network address
 2 for the object device includes:

- 3 (a) reading, from the record, a recorded hardware address for
 4 the object device;
 5 (b) sending an network multicast request for hardware
 6 addresses;
 7 (c) receiving responses to the network multicast for hardware
 8 addresses;
 9 (d) searching the responses for a response having a match to
 10 the recorded hardware address; and,
 11 (e) extracting the current network address from the response
 12 having a match to the recorded hardware address.

1 6. The method of claim 5 further including iteratively repeating steps
 2 (b) through (d) until a match to the recorded hardware address is found in the
 3 responses.

1 7. The method of claim 1 further including iteratively repeating steps
 2 (b) through (d) until a match occurs between the returned unique enduring
 3 identification and the recorded unique enduring identification.

1 8. A system for correcting a network address for an object device,
 2 the system comprising:

- 3 (a) a record having a recorded network address and a recorded
 4 unique enduring identification for an object device;

5 (b) a reader configured to read, from the record, the recorded
6 network address and the recorded unique enduring identification for the object
7 device;

8 (c) an interrogator configured to query the recorded network
9 address for a returned unique enduring identification;

10 (d) a comparator configured to compare the returned unique
11 enduring identification with the recorded unique enduring identification; and,

12 (e) a rectifier configured to respond to a mismatch between the
13 returned unique enduring identification and the recorded unique enduring
14 identification, by finding a current network address for the object device and
15 replacing the recorded network address with the current network address.

1 9. The system of claim 8 wherein the investigator includes:

2 (a) a dispatcher configured to address a unique enduring
3 identification query to the recorded network address; and,

4 (b) a receiver configured to receive the response to the query.

1 10. The system of claim 8 wherein the investigator includes a manager
2 configured to perform an SNMP Get call to the recorded network address.

1 11. The system of claim 8 wherein:

2 (a) the record further includes a recorded hostname for the
3 object device;

4 (b) the reader is further configured to read, from the record, a
5 recorded hostname for the object device; and,

6 (c) wherein the rectifier includes a retriever configured to
7 retrieve the current network address for the recorded hostname.

1 12. The system of claim 8 wherein:

2 (a) the record further includes a recorded hardware address for
3 the object device;

4 (b) the reader is further configured to read, from the record, a
5 recorded hardware address for the object device; and,

6 (c) the rectifier includes:

7 (i) a broadcaster configured to send a network multicast
8 request for hardware addresses;

9 (ii) a listener configured to receive responses to the
10 network multicast for hardware addresses;

11 (iii) an investigator configured to search the responses for
12 a response having a match to the recorded hardware address; and

13 (iv) an extractor configured to extract the current
14 network address from the response having a match to the recorded hardware
15 address.

1 13. A program storage device readable by a computer, tangibly
2 embodying a program, applet, or instructions executable by the computer to
3 perform method steps for correcting a network address for a object device, the
4 method steps comprising:

5 (a) reading, from a record, a recorded network address and a
6 recorded unique enduring identification for the object device;

7 (b) querying the recorded network address for a returned unique
8 enduring identification;

9 (c) comparing the returned unique enduring identification with
10 the recorded unique enduring identification; and,

11 (d) responsive to a mismatch between the returned unique
12 enduring identification and the recorded unique enduring identification, finding a
13 current network address for the object device and replacing the recorded
14 network address with the current network address.

1 14. The program storage device of claim 13 wherein the method step
2 of querying the recorded network address for a returned unique enduring
3 identification includes:

4 (a) addressing a unique enduring identification query to the
5 recorded network address; and,

6 (b) receiving the response to the query.

1 15. The program storage device of claim 13 wherein the method step
2 of querying the recorded network address for a returned unique enduring
3 identification includes performing an SNMP Get call to the recorded network
4 address.

1 16. The program storage device of claim 13 wherein the method step
2 of finding a current network address for the object device includes:

3 (a) reading, from the record, a recorded hostname for the object
4 device; and,

5 (b) retrieving the current network address for the recorded
6 hostname.

1 17. The program storage device of claim 13 wherein the method step
2 of finding a current network address for the object device includes:

3 (a) reading, from the record, a recorded hardware address for
4 the object device;

5 (b) sending a network multicast request for hardware
6 addresses;

7 (c) receiving responses to the network multicast for hardware
8 addresses;

9 (d) searching the responses for a response having a match to
10 the recorded hardware address; and,

11 (e) extracting the current network address from the response
12 having a match to the recorded hardware address.

1 18. The program storage device of claim 17 wherein the method steps
2 further included iteratively repeating steps (b) through (d) until a match to the
3 recorded hardware address is found in the responses.

1 19. The program storage device of claim 13 wherein the method steps
2 further included iteratively repeating steps (b) through (d) until a match occurs
3 between the returned unique enduring identification and the recorded unique
4 enduring identification.

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